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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SC-ISOSLICE-4

ISOLATED BUS I/O MODULE -



- **4 off Thermocouple Inputs**
- **Communicates to Ethernet / RS232 or RS485 network via an SC-E-100 unit**
- **Input/Output/Power Supply Isolation**
- **Automatic Bus & Power Connection Via DIN Rail Bus Connector**
- **Multiple inputs in one module**
- **Very High Accuracy, Low Cost**

Input Types for SC-ISOSLICE-4

Thermocouple Inputs x 4

Thermocouple Types: J K N R S T B E

Ranges: Large number of input ranges, can be user calibrated.

Cold Junction Compensation

Full thermocouple linearization

Upscale or Downscale t/c burnout options

For Channel to Channel Isolation see Isoslice-1

Outputs

For Output Modules see SC-ISOSLICE-6 or SC-ISOSLICE-8

The SC-ISOSLICE-4 isolated Bus I/O module combines full three-port isolation with access to an industrial bus. This bus connects to the SC-E-100 modules which are then used to transmit the process values via either an Ethernet or a RS232/485 wired communications network.

Full 3-port isolation is standard but for channel to channel isolation please see the SC-ISOSLICE-1

The input range and thermocouple type can be user selected using simple DIL switches inside the unit and the unit is factory calibrated for eight different thermocouple types.

The units have a wide ranging 12 to 36 Vdc. This supply can either be wired to the appropriate terminals or picked up automatically from the Bus connector.

| | | |
|---|---------|---------|
| B | 400 °C | 1800 °C |
| E | 0 °C | 1000 °C |
| J | 0 °C | 1200 °C |
| K | 0 °C | 1200 °C |
| N | 0 °C | 1000 °C |
| R | 0 °C | 1400 °C |
| S | 0 °C | 1400 °C |
| T | -200 °C | 400 °C |

Technical Specifications

| Parameter | Min | Typ | Max | Comments |
|---------------------------------------|----------------------|--------------|-----------------------------------|---|
| Supply Voltage | 12V | 24V | 36Vdc | |
| Supply Current (mA) | | 45 | 90 | For 24Vdc supply (260mA for 50ms on start-up) |
| Bus Connection | | | | 16-bit bus connection |
| Volt Drop (mA input) | | 0.3 | | At 20mA Input |
| Input Impedance (Tc) | | 1M Ω | | |
| Output Linearity Error | | $\pm 0.01\%$ | $\pm 0.05\%$ | |
| Temp Coefficient | | | $\pm 50\text{ppm}/^\circ\text{C}$ | |
| Time Constant (10-90%) | | 200mS | | |
| Operating Ambient | 0°C | | 55°C | |
| Relative Humidity | 0% | | 90% | |
| Isolation Voltage ^{see note} | 1kV | | | |
| Surge Voltage | 2.5kV for 50 μ S | | Transient of 10kV/ μ S | |

Notes

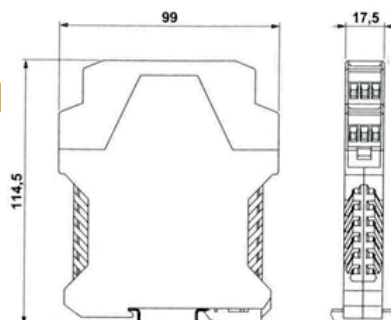
Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. Device is protected against reverse polarity connection. Accuracy figures based on 24Vdc supply, 4-20mA output with 250 Ω load and an ambient 20°C.

Installation Data

| | |
|----------------------|---------------------------------|
| Mounting | DIN Rail TS35 |
| Orientation | Any |
| Connections | Screw Clamp with pressure plate |
| Conductor Size | 0.5-4.0mm |
| Insulation Stripping | 12mm |
| Weight | Approx 95g |

Ordering Information

Part No.: SC-ISOSLICE-4



| Part Number | Universal Inputs | mA or V Inputs | RTD Inputs | T/C Inputs | Analogue Outputs | Digital Inputs | Digital Outputs |
|---------------|------------------|----------------|------------|------------|------------------|----------------|-----------------|
| SC-ISOSLICE-1 | 2 | | | | | | |
| SC-ISOSLICE-2 | | 8 | | | | | |
| SC-ISOSLICE-3 | | | 4 | | | | |
| SC-ISOSLICE-4 | | | | 4 | | | |
| SC-ISOSLICE-5 | | | | | | 8 | |
| SC-ISOSLICE-6 | | | | | | | 4 |
| SC-ISOSLICE-7 | | | | | | 2 x freq in | |
| SC-ISOSLICE-8 | | | | | 4 | | |
| SC-ISOSLICE-9 | 4 x AC1/V | | | | | | |

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ISO9001 CERTIFIED

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